San Fernando Valley Jet Noise Study - Status Report

Los Angeles World Airports

Noise Management Bureau

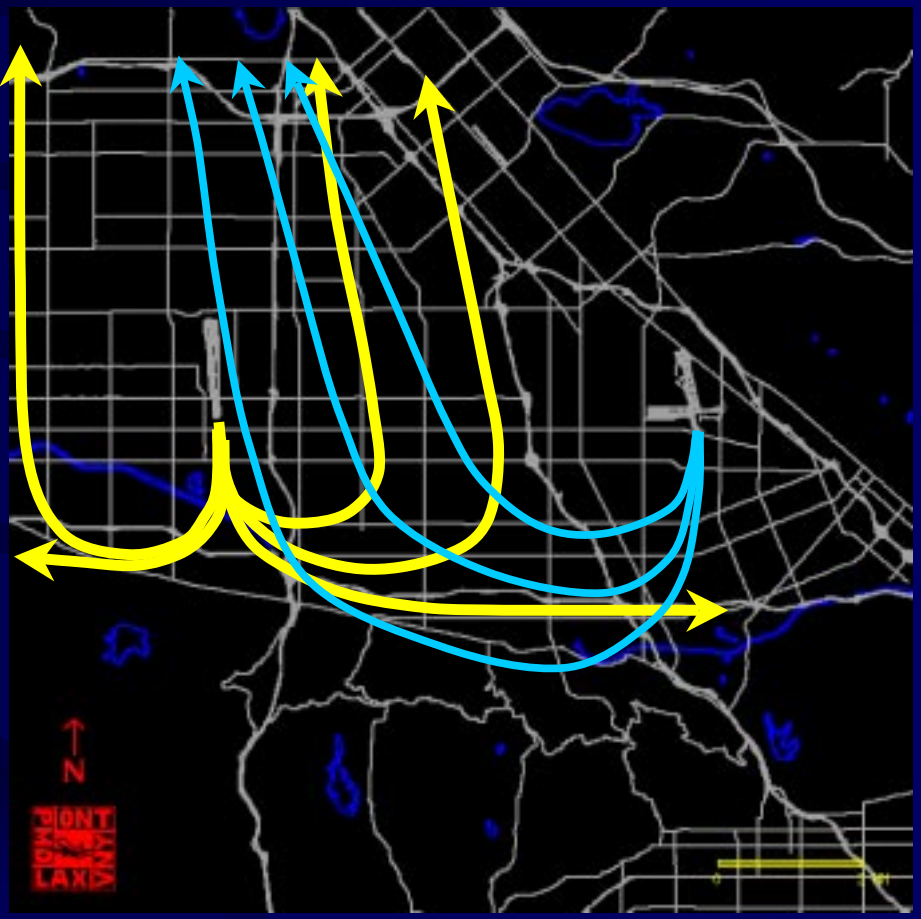
June 30, 1999

Purpose of Study

- Observe Van Nuys and Burbank jet departures
- Measure typical single-event noise levels in areas of San Fernando Valley without permanent noise monitors
- Use single-event noise levels to validate use of Integrated Noise Model (INM)
- Use INM to determine average jet noise levels throughout Valley in areas less than 65 dB CNEL due to VNY and BUR operations

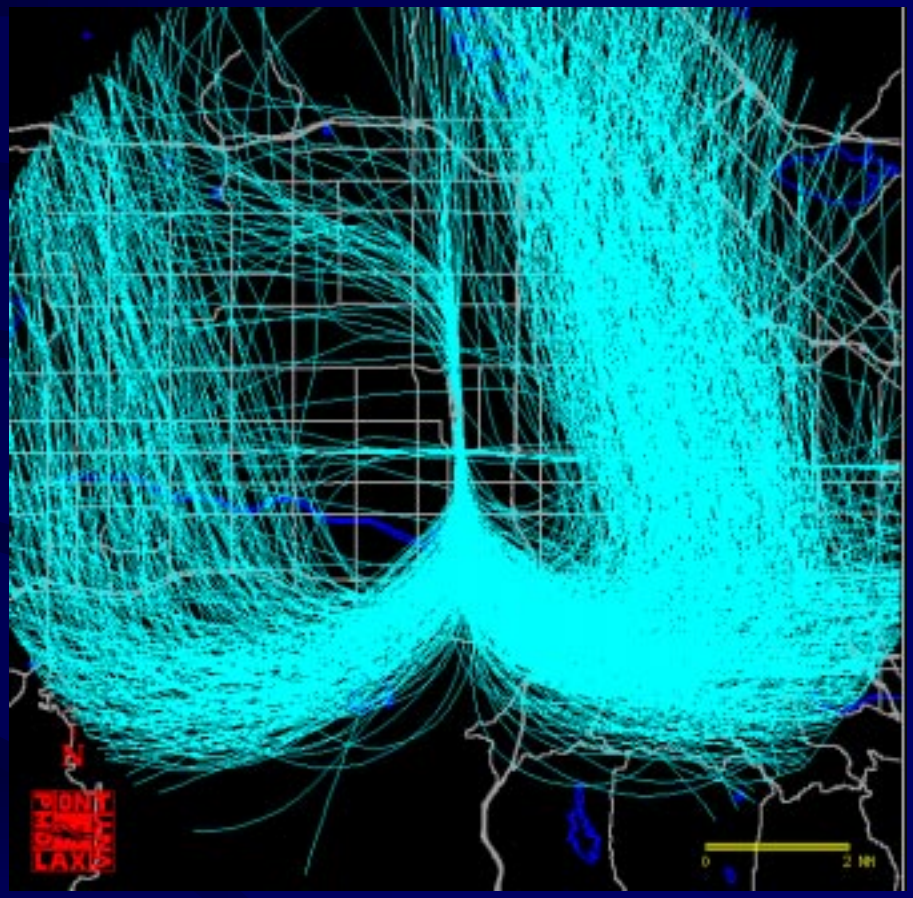
Typical Jet Departures

- Typical VNY jet flight paths in yellow
- Typical BUR jet flight paths in blue



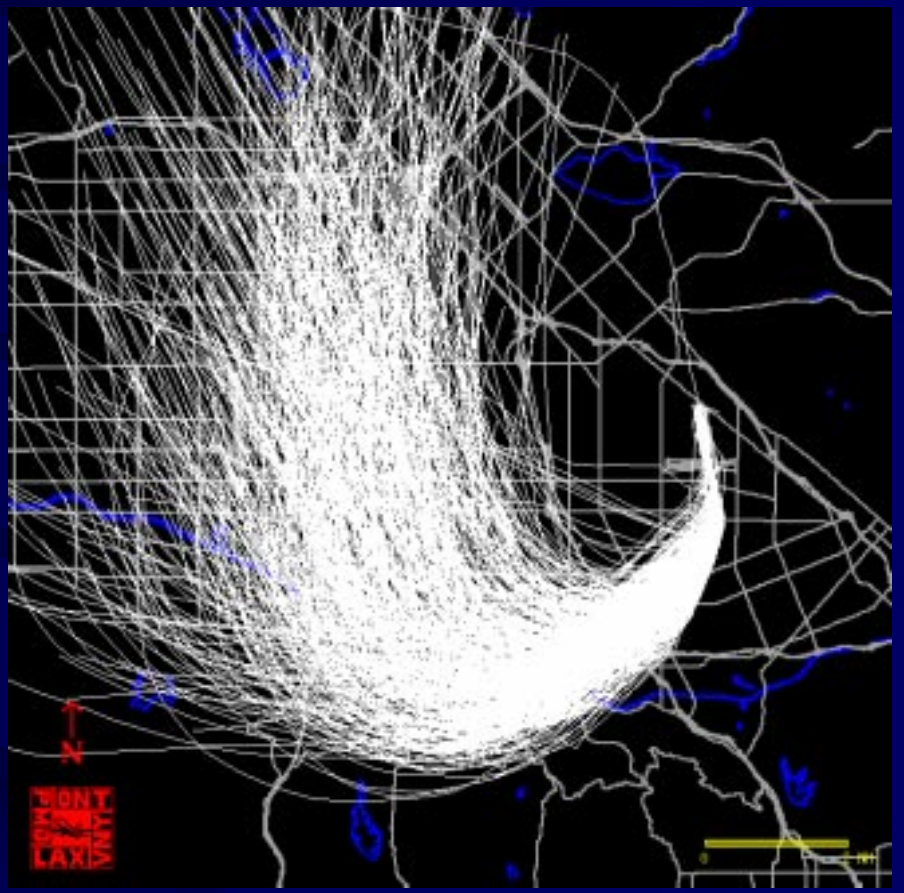
Typical VNY Operations

- One month of VNY jet departures (May, 1999)



Typical BUR Departures

- One week of BUR runway 15 jet departures (May 1-7, 1999)

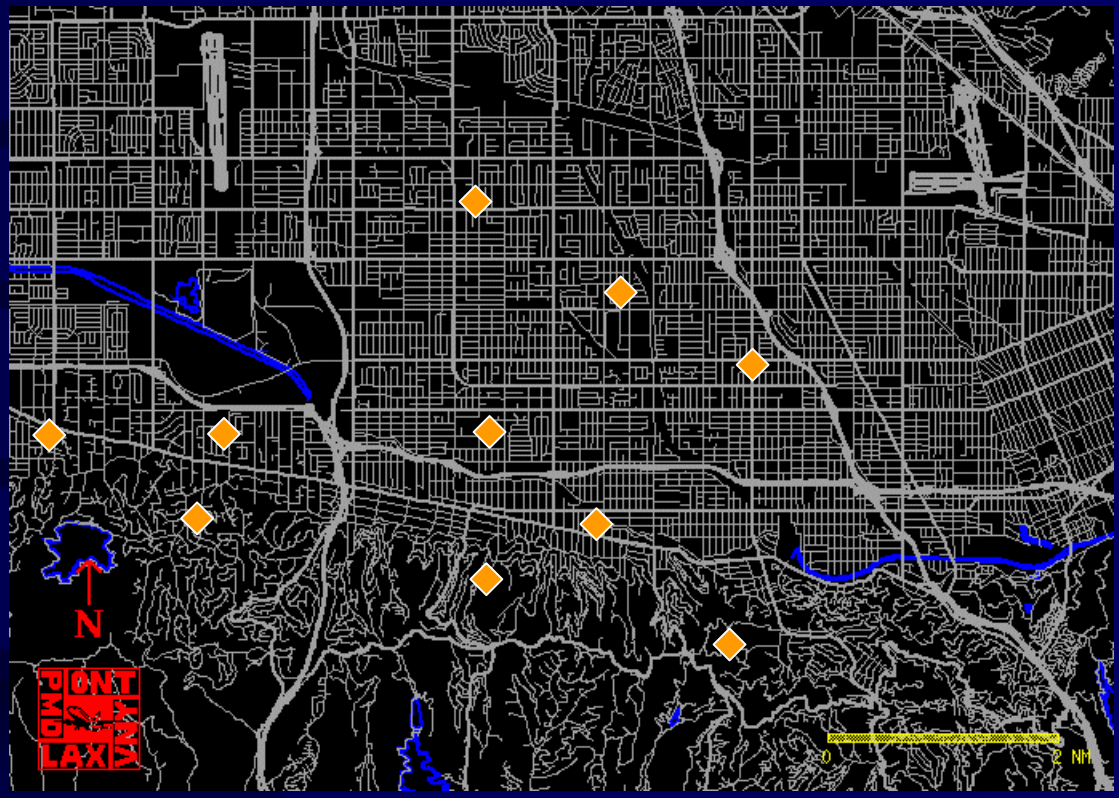


Elements of Study

- Noise Monitoring
  - 10 monitoring locations selected
  - 4 days of monitoring in June, 1999
  - approximately 2 hours per site during anticipated “busy” period
- Flight Operations Monitoring
  - FAA ARTS radar flight data during monitoring period correlated noise events to specific aircraft
  - one month of “typical” ARTS data for VNY and one week of ARTS data for BUR were summarized for noise modeling
- Noise Modeling
  - Integrated Noise Model used to predict single-event and average noise levels

Noise Monitoring Locations

- Van Nuys Recreation Center
- Van Nuys-Sherman Oaks Park
- Libbit Park (Encino)
- Lanai Road School (Encino)
- Our Lady of Grace School (Encino)
- Iredell Street (Studio City)
- The Buckley School (Sherman Oaks)
- St. Francis de Sales School (Sherman Oaks)
- Erwin Park (Van Nuys)
- Albers Street (North Hollywood)



Noise Modeling

- Baseline used will be May 1-31, 1999 operations for VNY, and May 1-7, 1999 operations for BUR.
- Estimated noise levels (SEL) for each aircraft type at each monitoring location will be calculated.
- Average noise levels (CNEL) for each monitoring location and throughout the San Fernando Valley will be calculated.

Results Forthcoming

- Draft study to be completed by LAWA in July, 1999.
- Distribution will follow FAA review and approval.